

## Web Version without Attachments

MEMORANDUM FOR DoD MODELING AND SIMULATION WORKING GROUP (MSWG)  
MEMBERS

SUBJECT: Minutes for the February 8, 1995, MSWG Meeting

The DoD MSWG met on February 8, 1995, with CAPT Hollenbach, Director, Defense Modeling and Simulation (M&S) Office (DMSO), chairing the meeting; Attachment 1 identifies attendees. Meeting highlights follow:

New MSWG Member. CAPT Hollenbach welcomed Dr. Henningsen as the new Program Analysis and Evaluation Directorate MSWG representative.

New Army Simulation Office. COL Hardin introduced LTC(P) Bourn, who will become chief of a new M&S division and that Army Deputy Chief of Staff for Operations and Plans is to establish under the Director of Training.

MSWG Agenda for the March 10, 1995, Meeting. The MSWG will address the following:

- Architecture Management Group (AMG) Membership;
- High-Level Architecture (HLA) Initial Definition Briefing;
- Revised Joint Aeronautical Commanders Group (JACG) Proposal for Joint and Multi-Service Verification, Validation and Accreditation (VVA);
- Data and Repositories Technical Working Group (DRTWG) progress report;
- Proposed Navy (N-096) execution plan as DoD Modeling and Simulation Executive Agent (MSEA) for Oceans and Atmosphere;
- Proposed Air Force execution plan for DoD MSEA for Atmosphere and Space (tentative--probable delay to April MSWG);
- Conceptual Model of the Mission Space; and,
- The DoD MSEA Taxonomy Working Group report.

EXCIMS Agenda for the March 22, 1995, Meeting. The MSWG concurred with the following agenda topics:

- AMG Membership;

- HLA Initial Definition Briefing;
- Revised JACG Proposal for Joint and Multi-Service VVA; and,
- DRTWG Progress Report.

Execution of Draft DoD 5000.59-P, "DoD M&S Master Plan (MSMP)." Execution of the DoD MSMP will require simultaneous, coordinated action by multiple functional and technical working groups (TWGs), task forces (TFs), and individual DoD Components. CAPT Hollenbach reviewed MSMP objectives and sub-objectives, the DoD M&S activity model, focal point organizations for executing the MSMP, and designated TWG leaders. Dr. Bravy clarified that the VVA TWG is now the "Systems and VVA TWG" (S/VVA TWG).

HLA and AMG. CAPT Hollenbach reviewed actions taken and/or underway to support DoD MSMP Sub-Objective 1-1, which will develop a DoD-wide, common HLA to facilitate the interoperability of all types of M&S among themselves and with C4I systems. Sub-Objective 1-1 also supports the reuse of M&S components. An Advanced Research Projects Agency-led Program Evaluation Team (PET) will brief the MSWG and EXCIMS on proposed approaches to the initial HLA in March. HLA development responsibility shifts from the PET to the AMG on March 31, 1995. The AMG will include representation from each DoD organization that has "major M&S interests" and will operate on an open, consensus basis. CAPT Hollenbach identified AMG membership criteria and reminded the MSWG that AMG nominations were due by February 15, 1995. Although AMG participants should be able to fund their own prototypes, CAPT Hollenbach indicated that the DMSO may fund good ideas from financially limited AMG members. He summarized the HLA definition process and illustrated how interoperability and reuse might be achieved through a prudent prototyping. ACTION: MSWG members should nominate candidate simulation programs for AMG membership and recommend specific persons to serve on the AMG by February 15, 1995.

Other key actions in support of the DoD MSMP include:

S&VVA TWG Plans. The S&VVA TWG met on February 7, 1995, to review the strawman VVA execution plan. At a February 9, 1995, joint meeting with the DRTWG, the S&VVA TWG will review the execution plan and address data verification, validation and certification issues. Additionally, a draft DoD Instruction on VVA will begin formal coordination in late February or early March. One key VVA issue the DoD M&S community must address is how to conduct VVA of joint or confederated M&S systems. CAPT Hollenbach noted that the DMSO plans to test VVA procedures thoroughly before proposing them for DoD-wide implementation. This approach provides an opportunity for one or more DoD

Components to obtain "free" VVA of one of their M&S systems by becoming test subjects for the new procedures. The results will

benefit both the participating DoD Component by providing verified, validated and accredited M&S, and the Department of Defense by establishing workable processes. The S&VVA TWG will review the JACG proposal for joint and multi-Service VVA before its presentation to the March MSWG and EXCIMS.

Human Behavior TWG (HBTWG) Plans. CAPT Hollenbach reported that the HBTWG has been re-energized and is developing an execution plan for presentation to the DMSO on February 21.

Environmental Representation TWG (ERTWG) Plans. The ERTWG will coordinate execution plans and have subgroups for Terrain, Atmosphere, Oceans, and Space. DoD MSEAs will assume responsibility for ERTWG subgroups as they are designated.

DRTWG Plans. The DRTWG is meeting February 6-10, 1995, to develop a strawman Data and Repositories Execution Plan; about 200 persons are attending this meeting from across the Department of Defense. The group will report its progress at the March MSWG and EXCIMS.

M&S Coordination Center Task Force (MSCCTF). LtCol Bartlett, Chief, Operations Division, DMSO, briefed that the MSCCTF will meet on February 24, 1995 in Room 118 of the Institute for Defense Analyses's (IDA's) 2001 North Beauregard facility. Col Verbeck from the Joint Warfighting Center (JWFC) will lead the MSCCTF, with LtCol Bartlett and Lt Col Doug Martin, JWFC, as deputy TF leaders.

M&S Terminology Task Force (MSTTF). The MSTTF will meet on February 16, 9:00 AM to 12:00 noon, in Room 118 of IDA's 2001 Beauregard facility. This TF is on a fast track with the goal of completing a formal-coordination-ready dictionary of DoD M&S terms by July 1995. ACTION: MSWG members are requested to provide the DMSO with M&S glossaries and acronyms used in their own organizations in either electronic and/or "hard" copy format. ACTION: Send electronic glossaries to: "glossary@dms0.dtic.dla.mil."

M&S Benefits Capture Task Force (MSBCTF). LtCol Bartlett will also lead the MSBCTF; its first meeting will be on February 23, 1995, from 9:00 AM to 11:30 AM in Room 118 of IDA's 2001 North Beauregard offices. The MSBCTF's goal is to document M&S benefits, with emphasis on validating quantifiable benefits. The goal is to produce an initial baseline product by September 21, 1995. Action: LtCol Bartlett requested that MSWG members provide the DMSO with any anecdotal or quantitative examples of benefits that M&S has provided.

DoD MSEA Requirements. MSWG members again considered the need for additional DoD MSEA areas or subjects beyond those

addressed in the draft DoD MSMP. CAPT Hollenbach reviewed the MSEA definition in DoD Directive 5000.59, as well as candidate

MSEAs proposed by MSWG members since the January 1995 meeting. The MSWG was, again, unable to agree on either the need for additional MSEAs or to determine what approach the DoD should take on MSEAs. CAPT Hollenbach directed LtCol Bartlett to lead an off-line MSWG meeting to achieve consensus on a taxonomy for DoD MSEAs and to report at the March 10 MSWG meeting. ACTION: MSWG members are invited to an "off-line" meeting to develop an MSEA taxonomy on February 24, 9:00 AM to 3:00 PM, in Room 119 of IDA's 2001 North Beauregard offices. ACTION: Please confirm the names of representatives with LtCol Bartlett or Mr. Mills (phone: (703) 998-0660 or (703) 824-3410, respectively) by February 23, 1995.

Terrain MSEA Execution Plan Briefing. Mr. Mike Rodrique, Defense Mapping Agency (DMA) Terrain Modeling Program Office, briefed the MSWG on DMA's latest MSEA execution plan. COL Hardin requested that DMA be more exact in defining the "boundaries" between terrain and the other elements of the environment. Dr. Bravy noted that all environmental representations may need to address interactions with other environmental "actors" in a standardized way. CAPT Hughes noted that DMA and the organization-yet-to-be-designated-DoD-MSEA-for-oceans will have to negotiate an agreement on how far "terrain" extends beyond the shore line.

DMA is concentrating its efforts in four areas:

- Requirements: including development of M&S terrain databases and resource repositories.
- Outreach: to provide community technical exchange and support; improve spatial integrity concepts; and support specific Combatant Command and Service needs.
- Standards: to include developing and establishing common M&S standards for terrain representation, data manipulation, and the addition of a Feature Attribute Coding Catalog and data depository.
- Terrain Representation: to include rapid terrain data generation, use of non-traditional sensors and alternate data sources, dynamic terrain, and trusted co-production of standard DMA products by other than DMA.

DMA will take part in the Distributed Interactive Simulation (DIS) Protocol workshop during the week of March 13-17, 1995. Mr. Rodrique stated that DMA will complete its final draft execution plan by March 17.

Command, Control, Communications, Computers and Intelligence (C4I) to Simulation Initiative in Joint Warrior Interoperability Demonstration (JWID) 1995. CAPT Hollenbach briefed the MSWG

(Attachment 2) on DMSO initiatives that support linkages between real world C4I systems and M&S in JWID 95. The idea is to

leverage past C4I and M&S systems investments to demonstrate how non-homogeneous systems can interoperate in an open standards environment. He emphasized that this initiative directly supports development of an interoperable DoD HLA, as outlined in DoD MSMP Sub-objective 1-1. The M&S objectives in JWID '95 focus on linking aviation planning tools and simulations with C4I, mission planning, and M&S systems to prove the utility of the idea. Additionally, JWID '95 will result in a "leave-behind" capability that can be the basis for further development.

Naval Command, Control, and Ocean Surveillance Center (NCCOSC) Research, Development, Test and Evaluation (RDT&E) Division Support for DMSO in JWID 95. CDR Donoghue briefed the MSWG (Attachment 3) on the NCCOSC RDT&E Division's role in supporting the DMSO in JWID '95. He reviewed the JWID '95 M&S objectives and explained how these objectives support specific JWID '95 goals and objectives. He also identified "legacy" C4I, planning, and M&S Systems that can work together to improve warfighting capabilities.

Schedule Notes. A list of key meetings

- MSWG. The MSWG will meet on March 10 and April 5, 1995. Both meetings will be in Room 122 of IDA's 2001 North Beauregard Street offices from 9:00 AM to 3:00 PM.
- DoD Executive Council for Modeling and Simulation (EXCIMS). The next EXCIMS meeting will be on March 22, from 10:00 AM to 1:00 PM, in Pentagon Room 4E1037.
- Joint Simulation System (JSIMS) O-6 Working Group. The JSIMS O-6 Working Group will meet on February 14, 1995, 10:00 AM to 12:00 Noon, in Pentagon Room 3E267. Lt Col Chris Warner, Joint Staff, J-7, (703) 697-1133, is the point of contact.
- JSIMS General Officer Steering Group (GOSG). The GOSG will meet on February 28, 1995, 10:00 AM to 12:00 Noon, in Pentagon Room 3E267. Point of contact is Lt Col Chris Warner, Joint Staff, J-7, (703) 697-1133.

James W. Hollenbach  
 Captain, USN  
 Director, Defense Modeling  
 and Simulation Office

Attachments  
 As stated



cc:

PMA-248 (CAPT Heineman)

JSIMS JPO (CAPT Falkey)

USACOM J-7A (CAPT Sherlock)

Modeling & Simulation Working Group (MSWG)  
February 8, 1995  
Meeting Attendance

<u>Organization</u>	<u>Attendees</u>
DMSO	CAPT Hollenbach *
	LtCol Bartlett
	CDR Misch
	Mr. Gajkowski
	Mr. Shaw
OUSD(P&R)	Mr. Johnson
OASD(C3I)	LTC Hauck
OASD(EcS)	Mr. Myers **
OASD(RA)	Not Present
ODDR&E	Not Present
ODTSEE	Mr. Burge **/**
OD(PA&E)	Dr. Henningsen **/**
The Joint Staff	LTC Altomare (J-7) **/**
	Mr. McGuire (J-8) **
Army	COL Hardin
	LTC(P) Bourn
Navy	Mr. Phillips **
	CAPT Hughes (NMEC(N5))
	CDR Donoghue (NRaD)
	Mr. Weitzner (N096)
Air Force	Not Present **
Marine Corps	Col Hanover **
ARPA	COL Reddy
BMDO	Dr. Bravy
DISA	Maj Phillips
	Dr. Huo
DMA	Mr. Rodrigue
	Mr. Jacober
DNA	Not Present
IC M&S COG/DIA	Mr. Guenther

\* MSWG Chair  
 \*\* MSWG Member  
 \*\*\* Functional Working Group Leader/Co-Leader

Attachment 1